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| Mr. Michael T. Davis  Calculus | | Sections 5.2 & 5.3 Practice Quiz  April 14, 2017 | |
| Name: | |

1. Determine whether the function  satisfies the hypotheses of the Mean Value Theorem on the interval . If it does, then find the value of c that satisfies the equation .
2. Determine whether the function  satisfies the hypotheses of the Mean Value Theorem on the interval . If it does, then find the value of c that satisfies the equation .
3. Determine whether the function  satisfies the hypotheses of the Mean Value Theorem on the interval . If it does, then find the value of c that satisfies the equation .
4. Determine whether the function  satisfies the hypotheses of the Mean Value Theorem on the interval . If it does, then find the value of c that satisfies the equation .
5. Determine whether the function  satisfies the hypotheses of the Mean Value Theorem on the interval . If it does, then find the value of c that satisfies the equation .
6. Determine the interval(s) on which the function  is (a) increasing and (b) decreasing.
7. Determine the interval(s) on which the function  is (a) increasing and (b) decreasing.
8. Determine the interval(s) on which the function  is (a) increasing and (b) decreasing.
9. Determine the interval(s) on which the function  is (a) increasing and (b) decreasing.
10. Determine the interval(s) on which the function  is (a) increasing and (b) decreasing.
11. Determine the interval(s) on which the function  is (a) increasing and (b) decreasing.
12. Use the Concavity Test to determine the interval(s) on which the graph of the function  is (a) concave up and (b) concave down.
13. Use the Concavity Test to determine the interval(s) on which the graph of the function  is (a) concave up and (b) concave down.
14. Find all the points of inflection of the function 
15. Find all the points of inflection of the function 
16. Find all the points of inflection of the function 